

LISTING OF THE CLAIMS

We Claim:

1. (Currently amended) A one-piece expandable flat bearing structure comprising at least partially elastically deformable struts which are separated from each other by openings in the bearing structure, the struts including: wherein the bearing structure can assume at least one compressed condition and at least one expanded condition and has at least one expansion direction;

~~wherein:~~

~~the bearing structure has anchor regions from which~~ spring struts having an anchor region on a first end and extending to a resiliently deflectable second end, the spring struts being ~~which are~~ elastically resilient with respect to the anchor regions ~~extend to a resiliently deflectable end of the spring struts, and~~

~~a hinge strut~~ struts adjoining said end spring struts at the resiliently deflectable second ends of the spring struts, wherein a hinge axis is formed at the juncture of a spring strut and a hinge strut, extending transversely with respect to the bearing structure, and each hinge strut having a central axis,

wherein the bearing structure can assume at least one compressed condition and at least one expanded condition and wherein the bearing structure has at least one expansion direction, and wherein a reference axis extends within the bearing structure transversely with respect to the expansion direction and transversely with respect to the hinge axis,

wherein the spring struts and the hinge struts are of such a configuration and arrangement that when going from a compressed condition to an expanded condition, the spring struts are initially resiliently deflected transversely to the expansion direction during the transition from the compressed condition to the expanded condition by the ~~folding-over~~ hinge struts initially folding-over and ~~finally spring~~ subsequently springing back, while a ~~respective~~ the central axis of the hinge struts is simultaneously pivoted about a the hinge axis ~~extending transversely with respect to the bearing structure~~ beyond ~~a~~ the reference axis ~~which extends within the bearing structure transversely with respect to the expansion direction and transversely with respect to the hinge axis~~ so that both the compressed condition of the bearing structure and also the expanded condition of the bearing structure ~~is~~ are stabilized by a spring action emanating from the spring struts.

2. (Previously presented) A bearing structure as set forth in claim 1, wherein a respective spring strut adjoins both longitudinal ends of a respective hinge strut and said two spring struts are so arranged relative to each other that they exert a moment in the same direction on the hinge strut about the hinge axis.
3. (Previously presented) A bearing structure as set forth in claim 2, wherein the two spring struts respectively adjoining a hinge strut are shaped and arranged in point-symmetrical relationship with each other.
4. (Previously presented) A bearing structure as set forth in claim 1, wherein the bearing structure forms a peripheral wall of a stent.

5. (Currently amended) A bearing structure as set forth in claim 4, wherein the expansion direction extends in the peripheral direction of the stent and the reference axis extends parallel to or at a shallow angle to the longitudinal direction of the stent while the hinge axis is oriented approximately radially.
6. (Previously presented) A bearing structure as set forth in claim 1, comprising plastic material.
7. (Previously presented) A bearing structure as set forth in claim 1, comprising a magnesium alloy.
8. (Previously presented) A bearing structure as set forth in claim 1, comprising a bioresorbable material.
9. (Previously presented) A bearing structure as set forth in claim 1, wherein the openings are cut so that the struts are separated from each other by cuts.
10. (Currently amended) A bearing structure as set forth in claim 9, wherein the cuts are of such a configuration as to ~~afford~~ provide hinge struts which are S-shaped or W-shaped in the compressed condition.
11. (Currently amended) A bearing structure as set forth in claim 10, wherein the cuts have end regions which are of an expanded configuration to reduce ~~the a~~ notch effect.
12. (Previously presented) A bearing structure as set forth in claim 1, wherein in the proximity of the anchor regions, the spring struts are of a larger cross-sectional area than in the region of their resiliently deflectable ends.

13. (Previously presented) A bearing structure as set forth in claim 12, wherein the spring struts steadily taper from the anchor regions towards the resiliently deflectable ends.
14. (Previously presented) A bearing structure as set forth in claim 1, wherein the hinge struts are of a substantially uniform cross-section transversely with respect to their central axis.
15. (Previously presented) A bearing structure as set forth in claim 1, wherein a transitional region of a cross-section which is reduced in relation to the hinge strut is provided between a respective resiliently deflectable end of a spring strut and the hinge strut adjoining the resiliently deflectable end.
16. (Currently amended) A bearing structure as set forth in claim 9, wherein the cuts have end regions which are of an expanded configuration to reduce ~~the~~ a notch effect.